

## SUMMARY

5 The invention relates to the use of a weakly ionic and water-soluble copolymer as a grinding aid agent for grinding mineral matter in aqueous suspension in order to obtain aqueous suspensions of refined mineral matter, with a dry matter concentration that can be high, with a low Brookfield™ viscosity that remains stable over time, having the property that it presents a pigmentary surface area the ionic charge of which, as determined by ionic titration, is low.

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The invention relates to the aqueous suspensions of mineral matter obtained and their use in the fields of paper, paint and plastics.